Jesse T. E. **Quinn**

ORGANIC ELECTRONICS · MATERIALS ENGINEERING · CHEMISTRY · THEORETICAL CHEMISTRY · COMPUTER PROGRAMMING

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"Everything is theoretically impossible, until it is done." - Robert A. Heinlein

Summary

Highly self-motivated Ph.D. with an interdisciplinary background in Chemistry, Chemical Engineering and Computer Science in conjunction with a demonstrated research prowess in the field of organic electronics and polymeric semiconductor chemistry. With a rich experience in experimental techniques, and computation modelling along with strong interpersonal skills.

Research/Work Experience

Dr Osvaldo Novais de Oliveira, University of São Paulo   *São Carlos, Brazil*
POST-DOCTORAL FELLOWSHIP   *Jun. 2017 – present*

- Synthesis of quantum dots.
- Sensing and characterization of biosensors.

Dr Boxin Zhao, University of Waterloo   *Waterloo, Canada*
VISITING SCHOLAR   *2012 – 2013*

- Synthesis of acrylic pressure sensitive adhesives.
- Surface modification of polydimethylsiloxane (PDMS).

Opalux Inc.   *Toronto, Canada*
RESEARCHER   *Feb. – Jul. 2009*

- Supported the development of P-INK device (Electrically Active Colour-Based Battery Tester).
- Helped with technical problems with other product lines.
- Synthesized nanoparticles on demand.
- Developed and constructed an electronic voltage tuner (potentiometer) for P-INK device.
- Responsible for the design, construction and maintenance of company website.

Ministry of Environment   *Toronto, Canada*
DATA ANALYST   *Sep. – Dec. 2008*

- Analyzed past data for outliers for the drinking water survey program (DWSP).
- Corrected outliers when possible with actual raw data.
- Compiled past data into the appropriate reports.
- Supported the DWSP questionnaire (*i.e.* contacted and requested information from all participating drinking water works.)

Dr Andrew McWilliams, Ryerson University   *Toronto, Canada*
RESEARCHER   *May – Aug. 2008*

- Supported the development of polymer precursors.
- Synthesized several analog precursors.
- Utilized the computational chemistry program HyperChem in the construction of precursors.

Honors & Awards

INTERNATIONAL

2017	**Finalist**, DEFCON 25th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2014	**Finalist**, DEFCON 22nd CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2013	**Finalist**, DEFCON 21st CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2011	**Finalist**, DEFCON 19th CTF Hacking Competition World Final	*Las Vegas, U.S.A*
2012	**6th Place**, SECUINSIDE Hacking Competition World Final	*Seoul, S.Korea*

DOMESTIC

2015	**3rd Place**, WITHCON Hacking Competition Final	*Seoul, S.Korea*
2013	**Silver Prize**, KISA HDCON Hacking Competition Final	*Seoul, S.Korea*

Presentation

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*
PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS> *Jul. 2012*
- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Writing

A Guide for Developers in Start-up *Facebook Page*
FOUNDER & WRITER *Jan. 2015 - PRESENT*
- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab *S.Korea*
UNDERGRADUATE STUDENT REPORTER *Oct. 2012 - Jul. 2013*
- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*

Education

POSTECH(Pohang University of Science and Technology) *Pohang, S.Korea*
B.S. IN COMPUTER SCIENCE AND ENGINEERING *Mar. 2010 - Aug. 2017*
- Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

Extracurricular Activity

PoApper (Developers' Network of POSTECH) *Pohang, S.Korea*
CORE MEMBER & PRESIDENT AT 2013 *Jun. 2010 - Jun. 2017*
- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH) *Pohang, S.Korea*
MEMBER *Sep. 2010 - Oct. 2011*
- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.